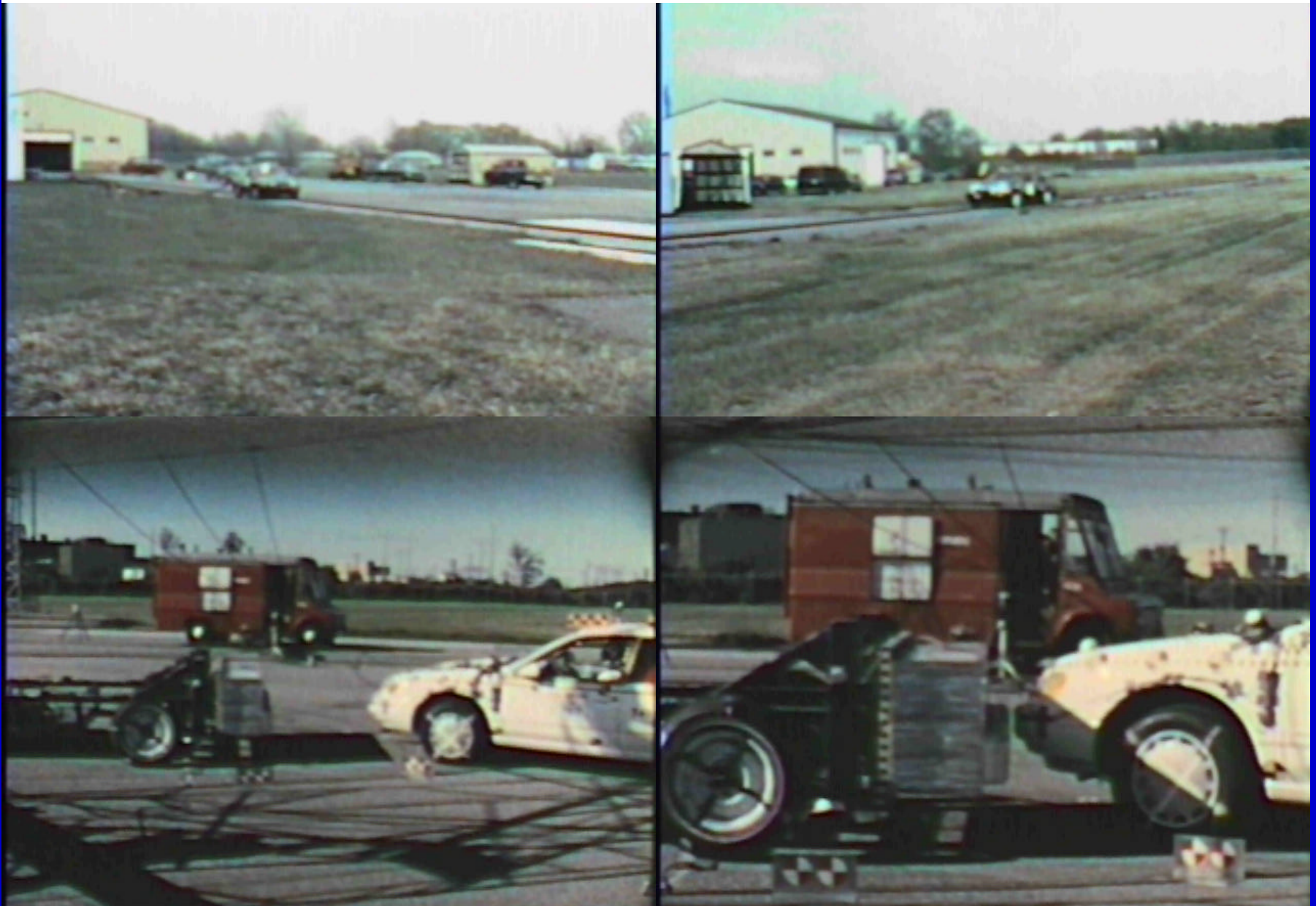


Offset Frontal Collisions
CIREN Public Meeting
March 16, 2001

Tom Hollowell
Chief, Crashworthiness Research Division,
NHTSA

NHTSA's Advanced Frontal Crash Protection Research

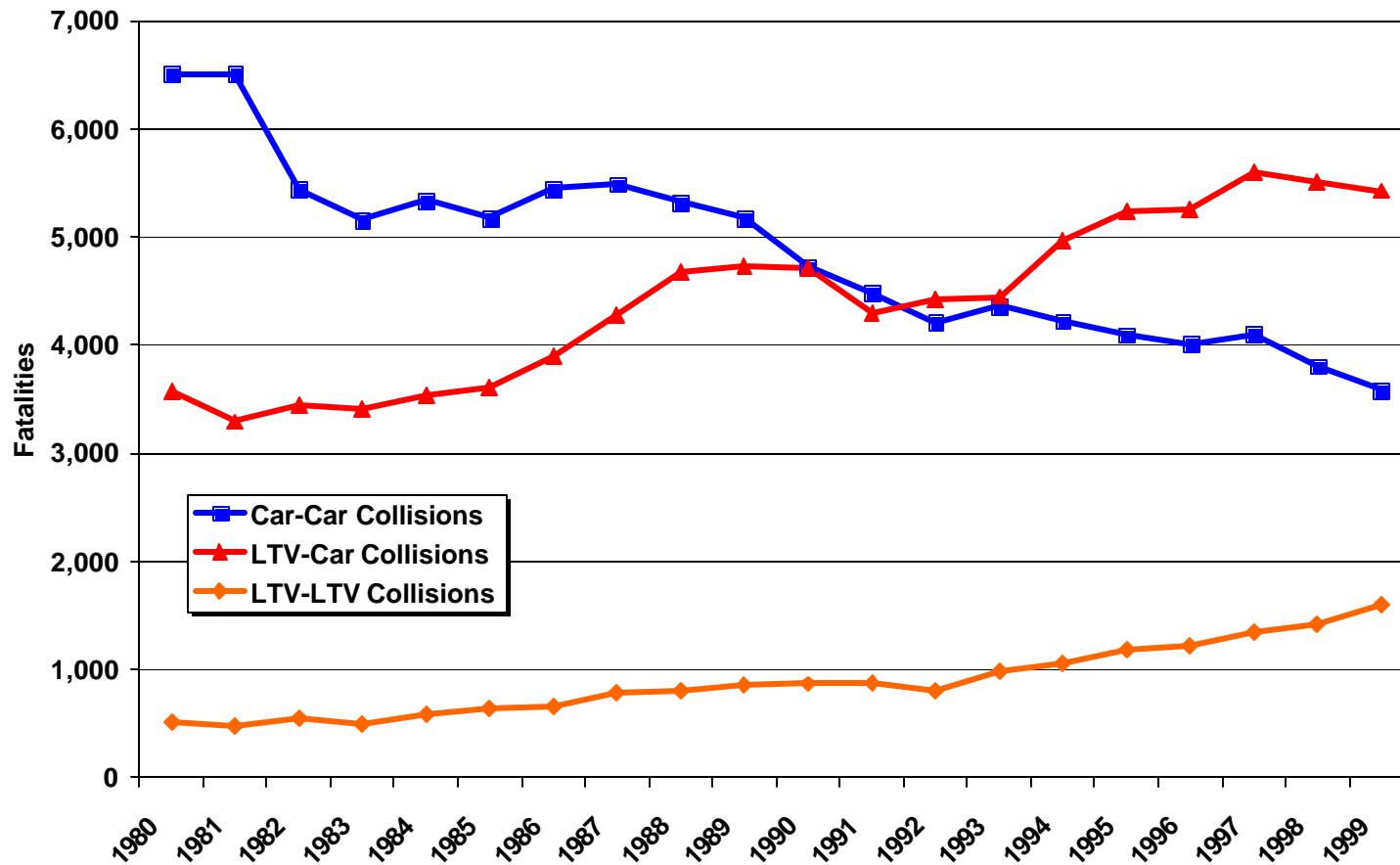


Honda Accord

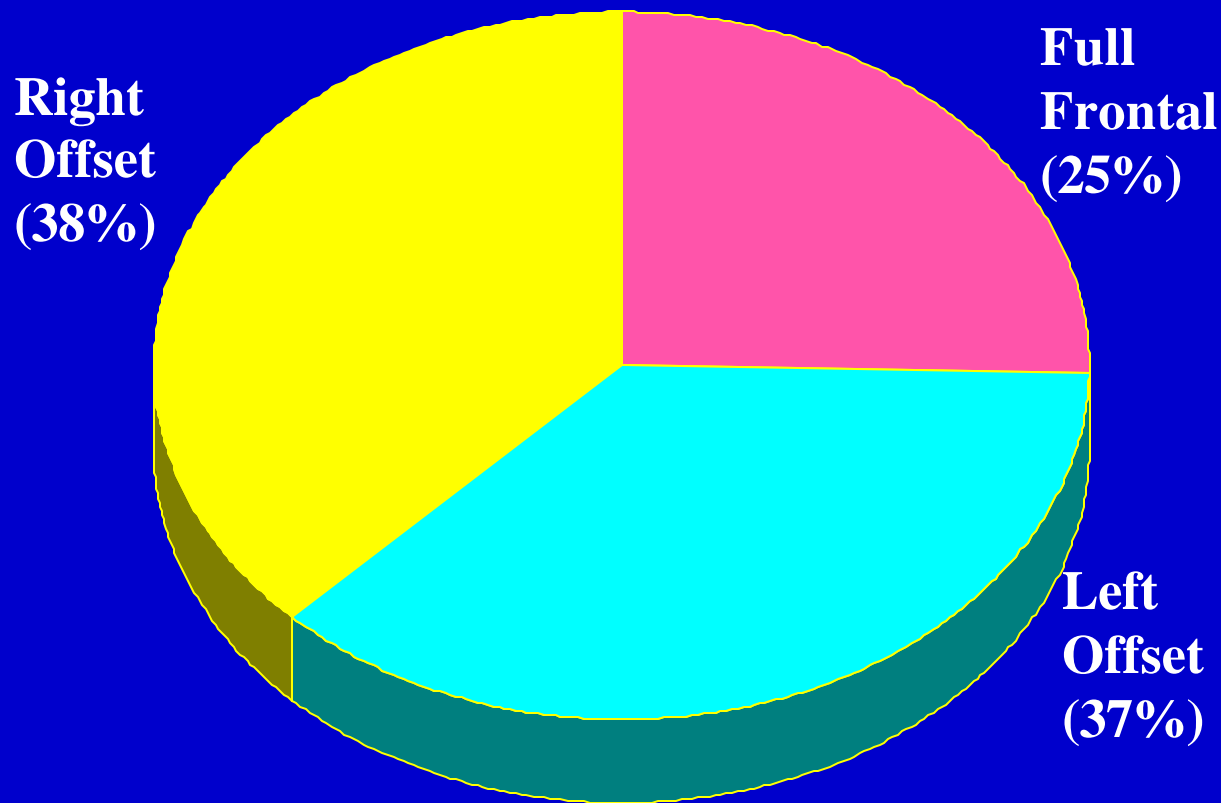
Striking Vehicle: S-10 Pickup



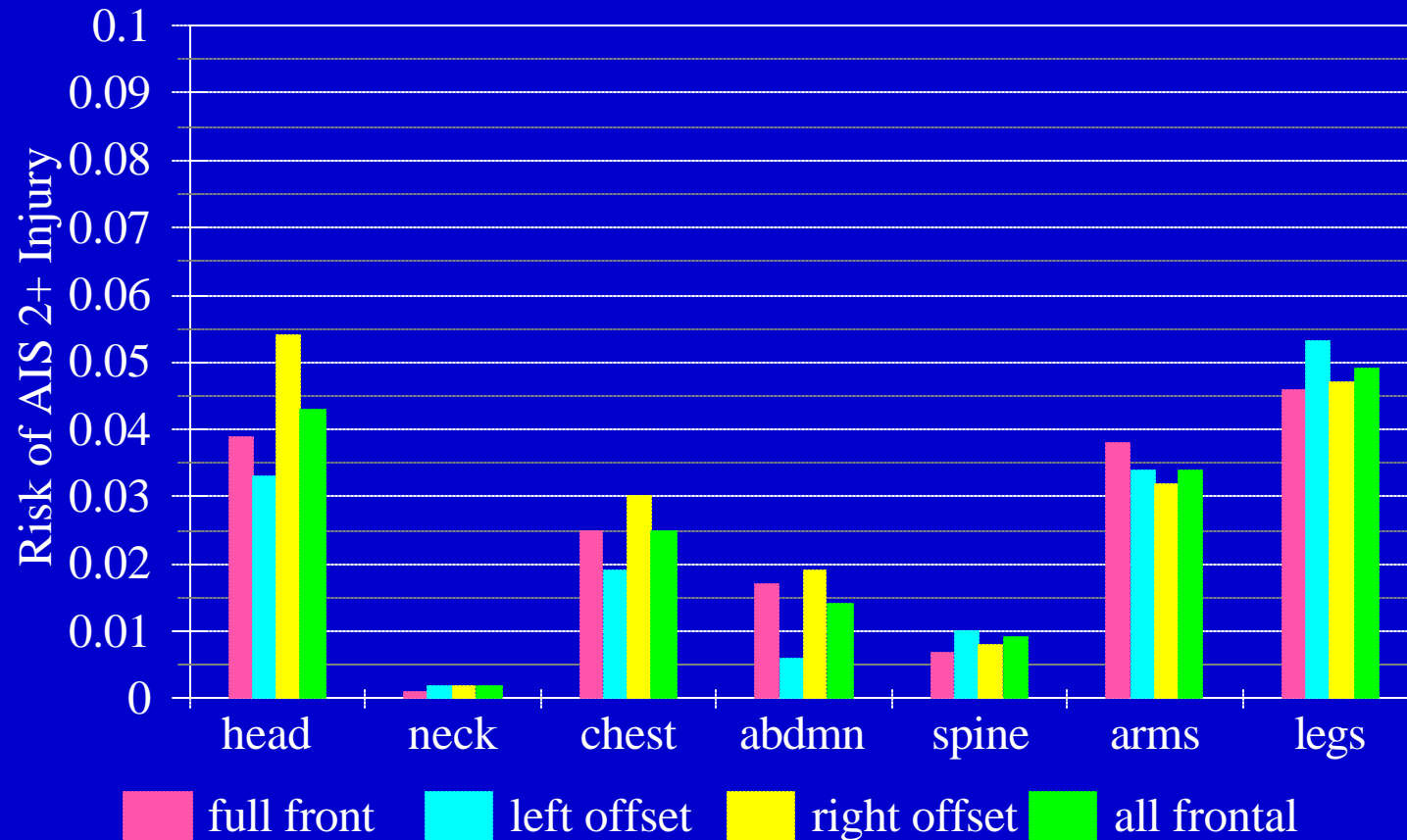
Fatalities in Vehicle-to-Vehicle Collisions



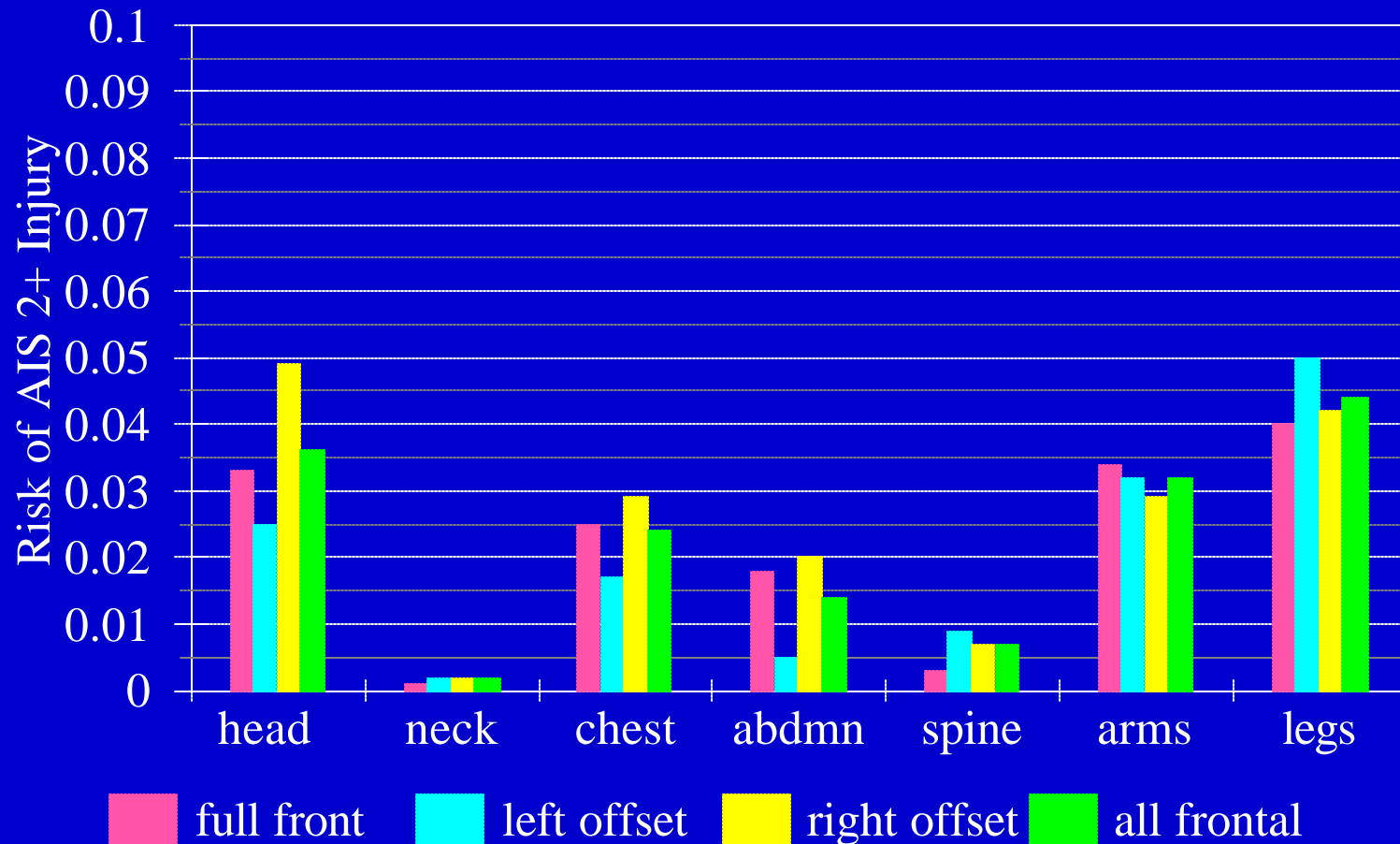
Percentage of Front Outboard Occupants in Different Frontal Crash Modes (Air Bag Equipped Vehicles)



Risk of AIS 2+ Injuries to Front Outboard Occupants in Frontal Crashes (Vehicles with Air Bags)



Risk of AIS 2+ Injuries to Belted Front Seat Occupants in Frontal Crashes (Vehicles with Air Bags)

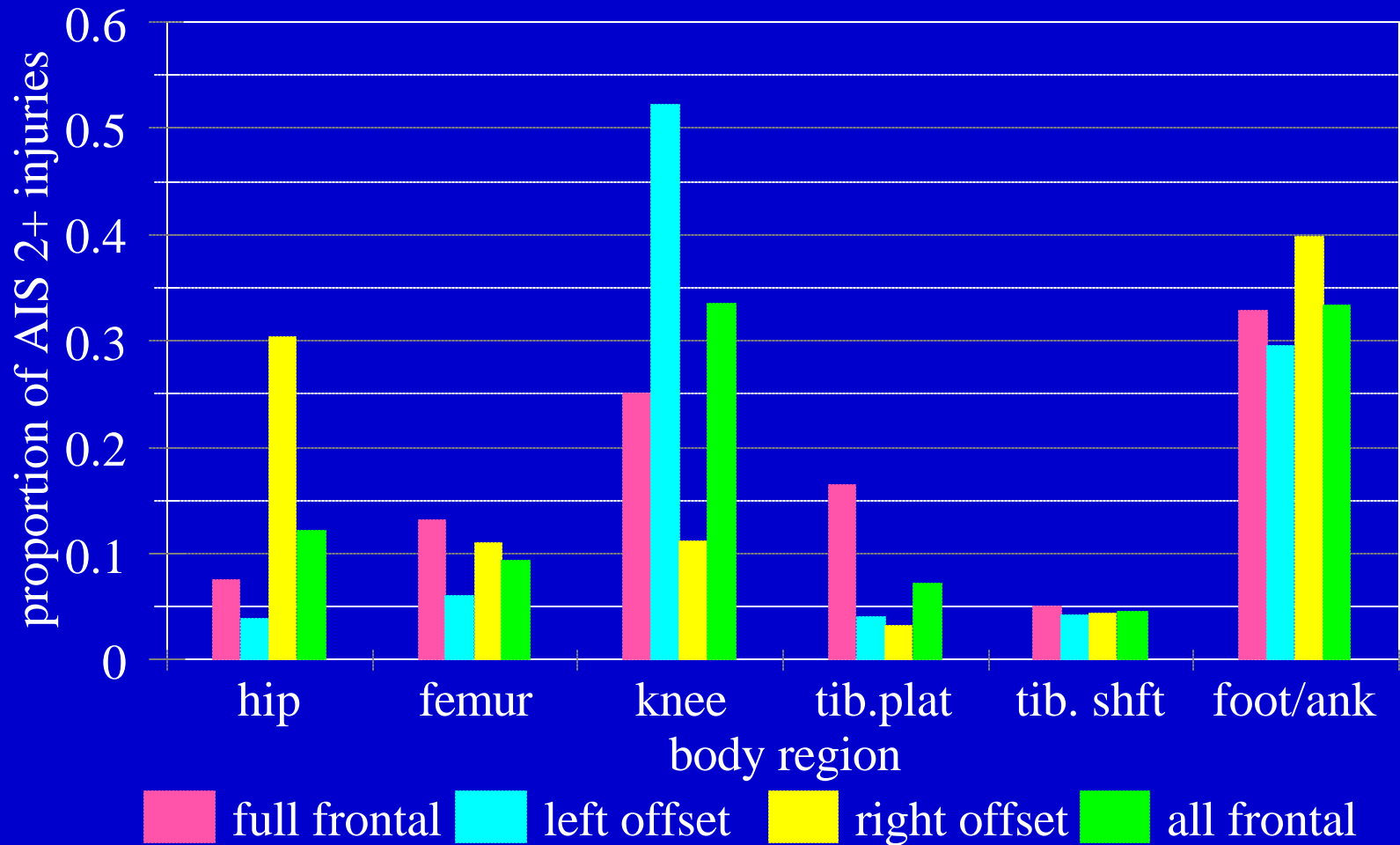


Average Number of AIS 2+ Injuries and Associated LLI Occurring Annually to Front Outboard Occupants in Air Bag Equipped Vehicles

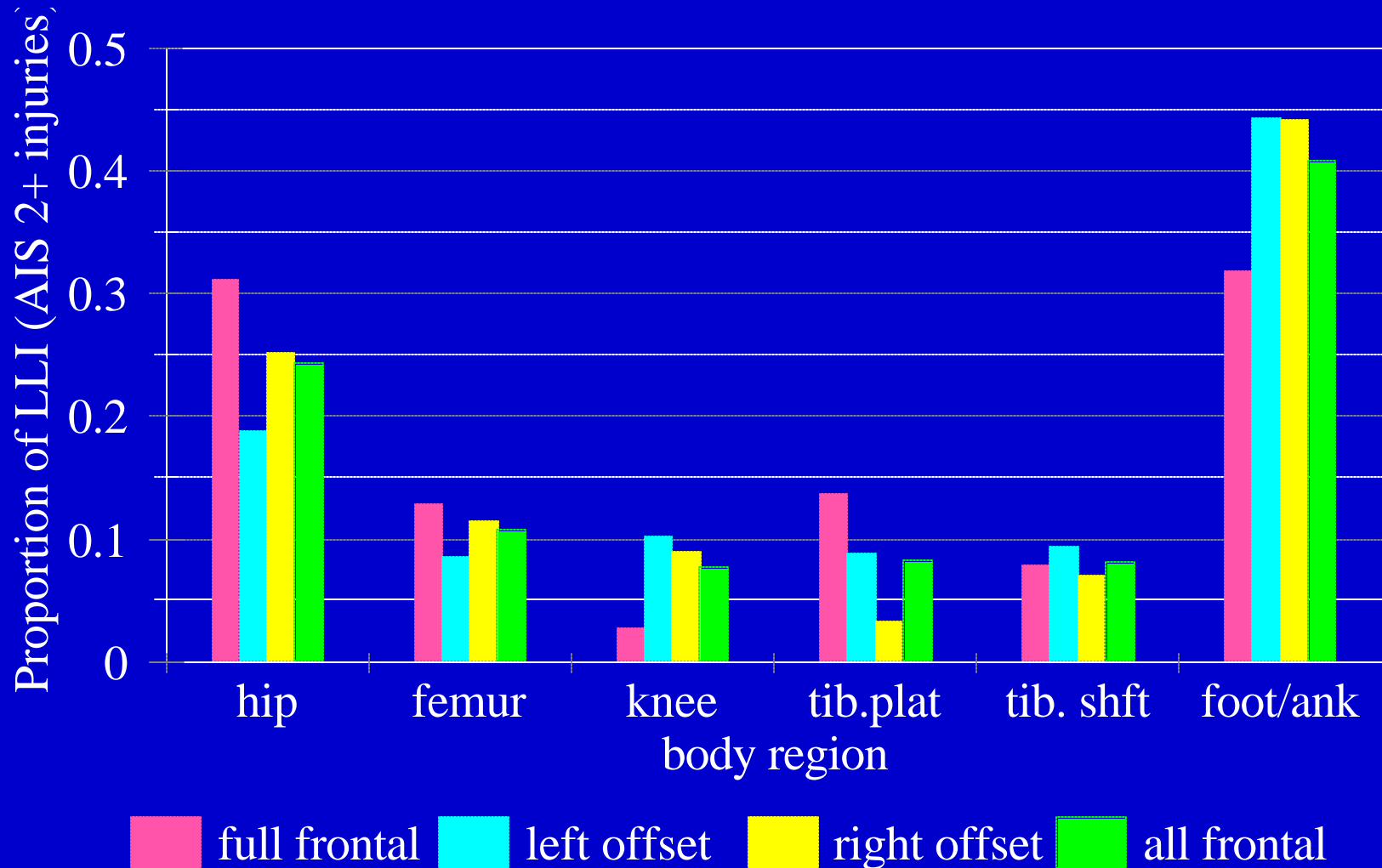
	No. of AIS 2+ injuries	Associated No. of LLI
hip	2153	18691.2
femur	1657	8230.3
knee	5928	5917
tib.plat	1257	6320.1
tib. shft	794	6243.7
foot/ank	5880	31325.7
total	17669	76728

Note: LLI - Life-years Lost to Injury

Proportion of AIS 2+ Lower Limb Injuries to Front Outboard Occupants in Air Bag Equipped Vehicles Involved in Frontal Crashes



Proportion of Functional Life Years Lost to AIS 2+ Lower Limb Injuries to Front Outboard Occupants in Air Bag Equipped Vehicles Involved in Frontal Crashes



Proportion of AIS 2+ Foot and Ankle Injuries to Front Outboard Occupants in Air Bag Equipped Vehicles Involved in Frontal Crashes

